



SOLICITATION NO.: XXXXXX-XX-X-XXXX

CONTRACT NO.: W912DQ-D-15-3011

ISSUE DATE: AUGUST 2018

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U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT	DESIGNED BY: UP	ISSUE DATE: AUGUST 2018
	DRAWN BY:	SOLICITATION NO.: XXXXXXXX-XX-XXXX
	CF	
	CHECKED BY:	CONTRACT NO.: W912DDQ-D-15-3011
	SUBMITTED BY:	
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	SIZE:	
AECOM 100 RED SCHOOLHOUSE RD CHESTNUT RIDGE, NY		

ROEBLING STEEL SUPERFUND SITE
VILLAGE OF ROEBLING
FLORENCE TOWNSHIP, NJ
OPERABLE UNIT 4 - EXISTING MILL YARD EQUIPMENT
COVER SHEET AND INDEX OF DRAWINGS

SHEET ID

G-101



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U.S. ARMY CORPS OF ENGINEERS	ROOM	SOLICITATION NO.:	AUGUST 2018
KANSAS CITY DISTRICT	100 RED SCHOOLHOUSE RD	DRAWN BY:	JP
	CHESTNUT RIDGE, NY	CH	XXXXXX-XXXXXX
		CHECKED BY:	CF
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		SUBMITTED BY:	W912DQ-D-15-3011
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ROEBLING STEEL SUPERFUND SITE
OPERABLE UNIT 4
EXISTING MILL YARD EQUIPMENT

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SHEET ID

G-102

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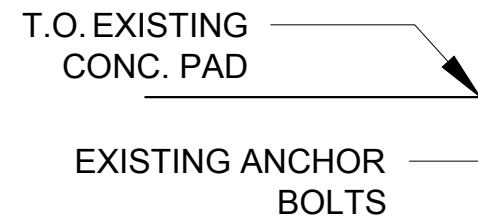
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E	NEW BASE PLATE PLAN VIEW
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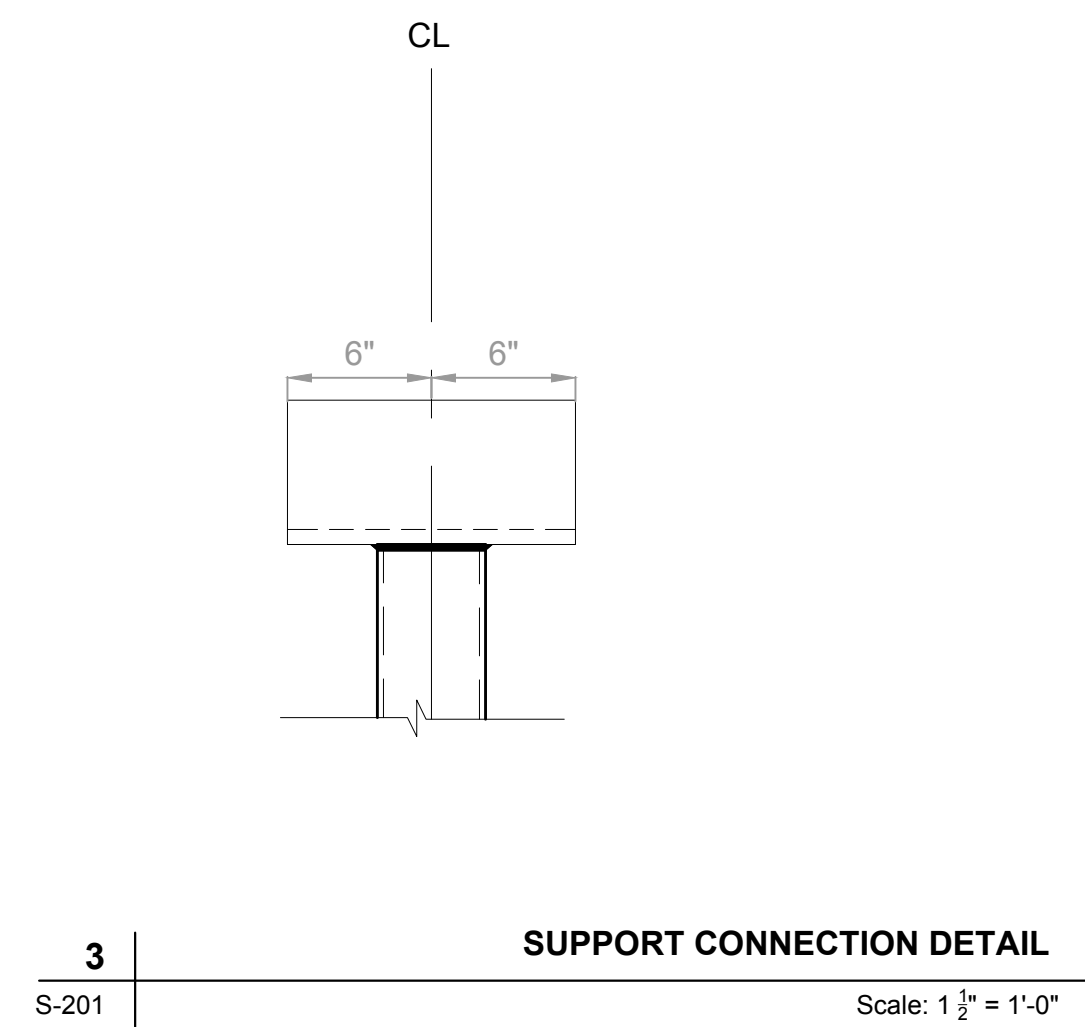
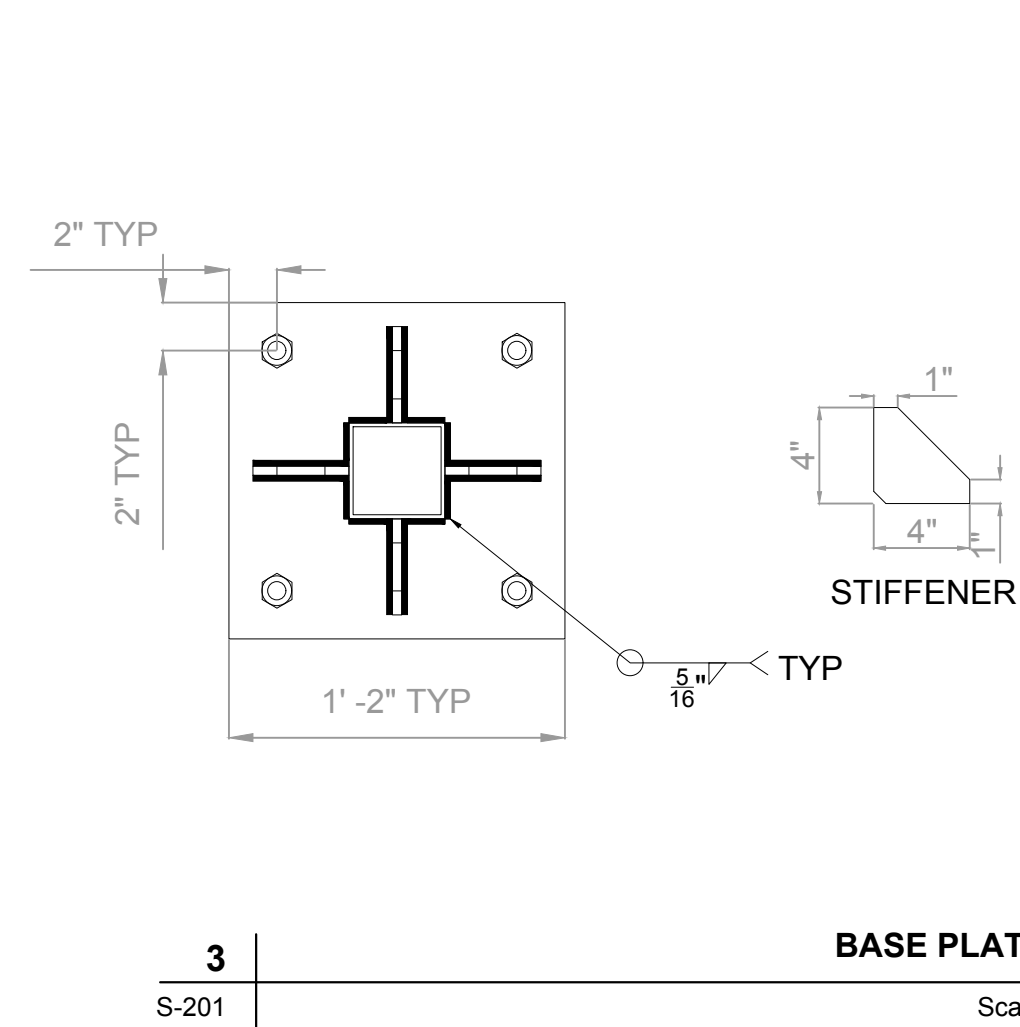
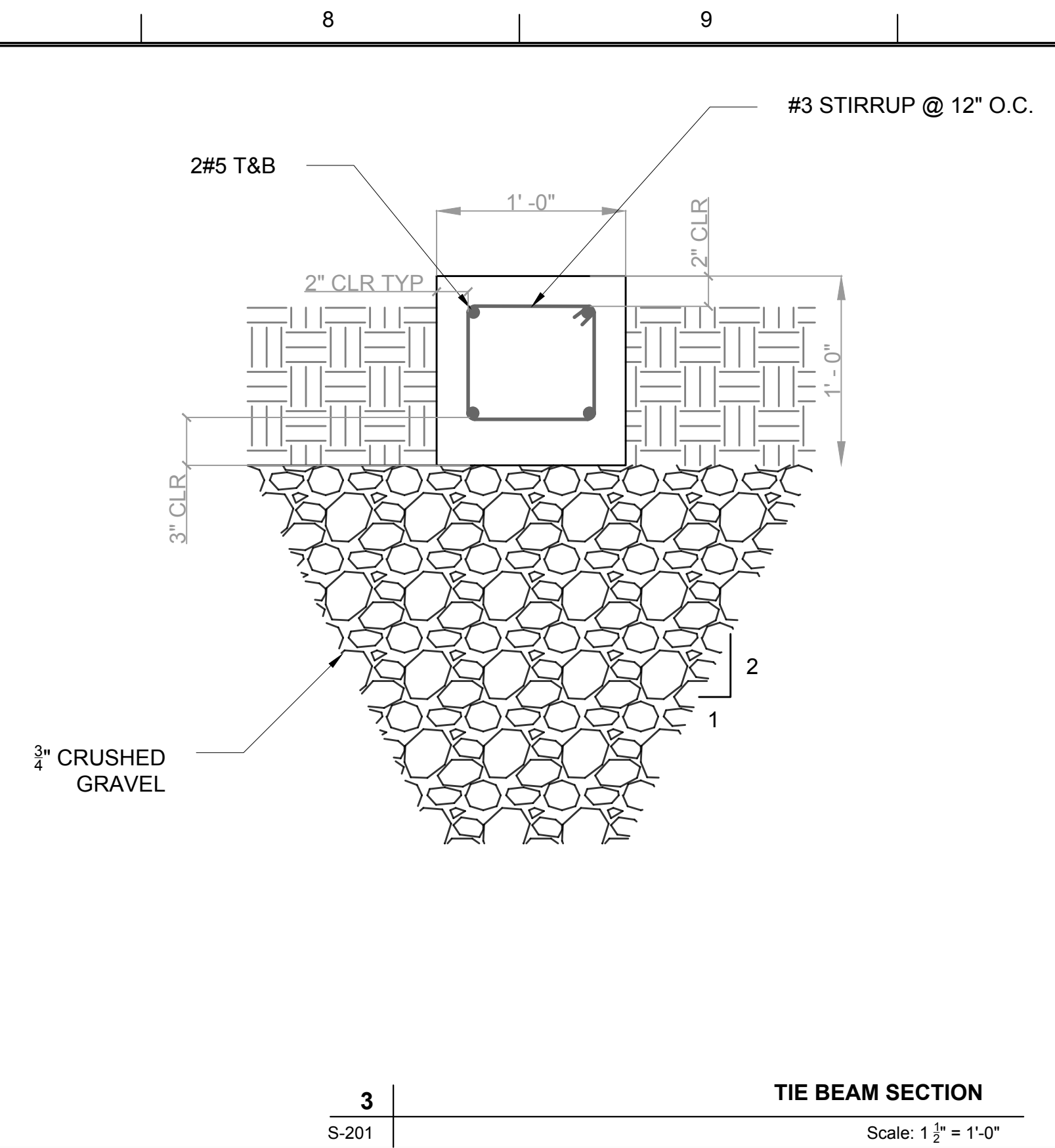
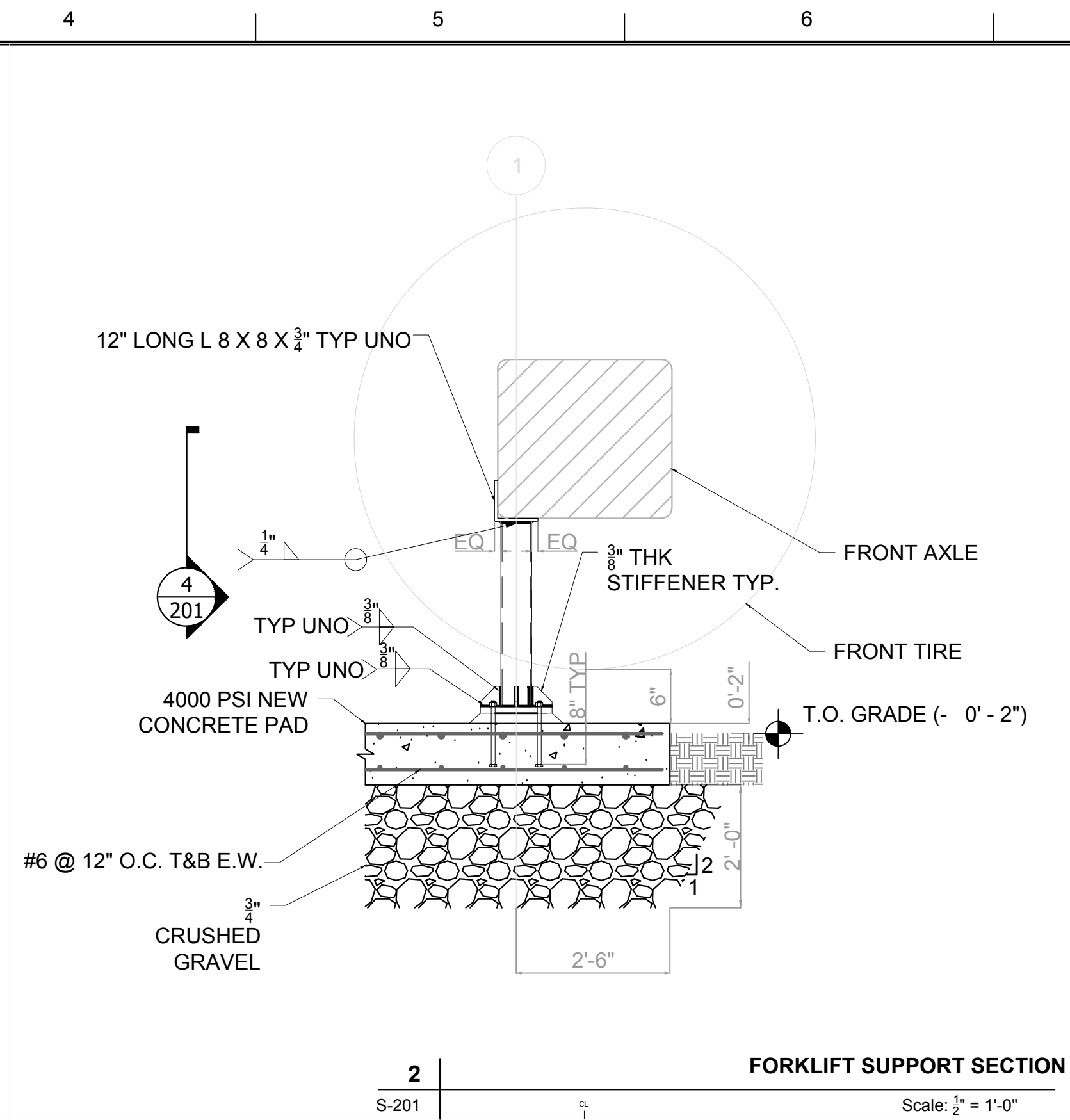
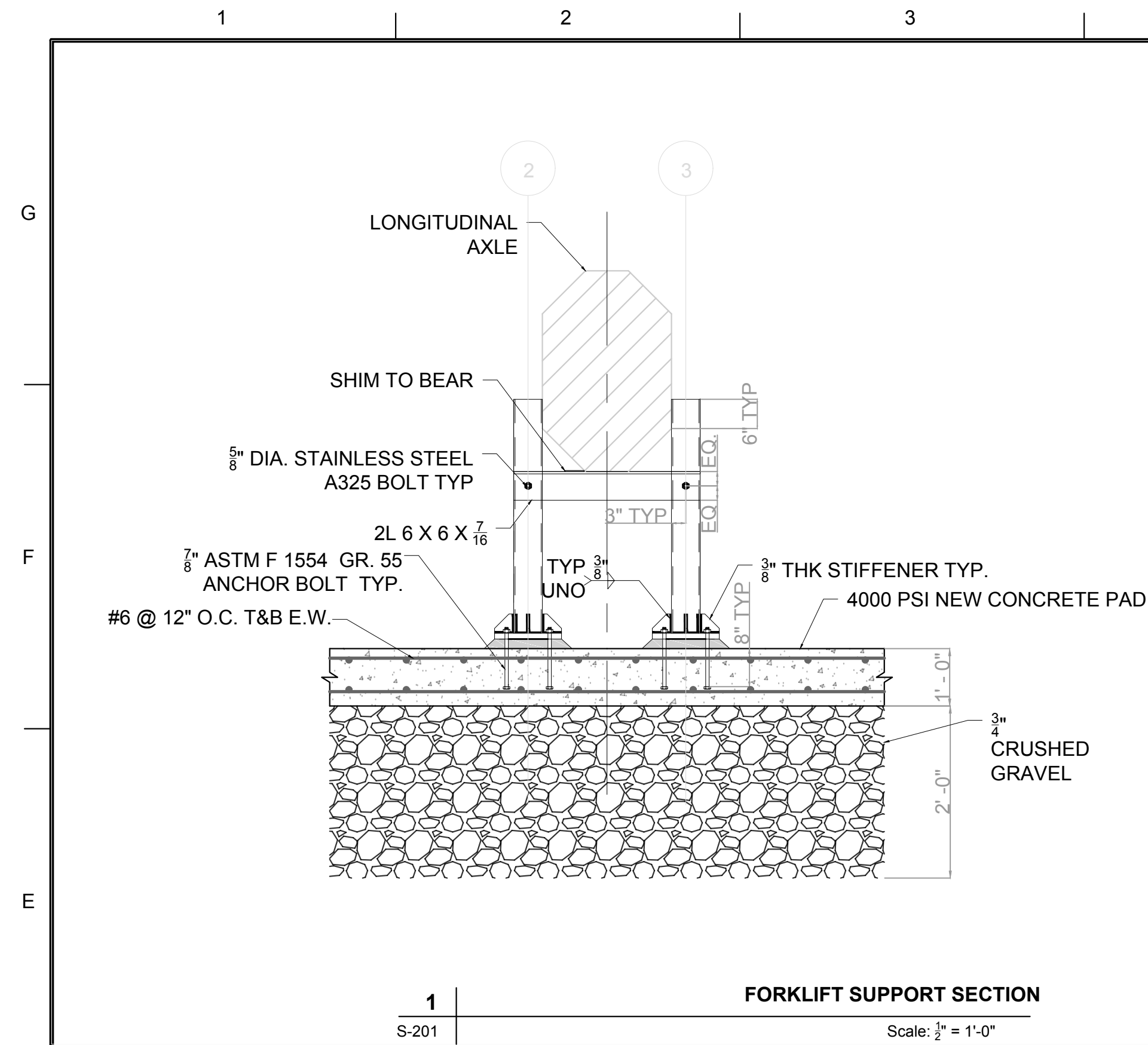


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U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT	ACCOM		100 RED SCHOLHOUSE RD CHESTNUT RIDGE, NY
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	SIGNED:		
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	DRAWN BY:		
	SA	AUGUST 2018	
	SOLICITATION NO.:		
	CH	XXXXXXX-XXXX	
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MK	W9120Q-D-15-3011		

SHEET ID
S-100



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KANSAS CITY DISTRICT	DRAWN BY:		SOLICITATION NO.:
	SA		XXXXXX-XX-X-XXXX
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	CS		W912DQ-D-15-3011
AECOM 100 RED SCHOOLHOUSE RD CHESTNUT RIDGE, NY	SUBMITTED BY:		
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S-201

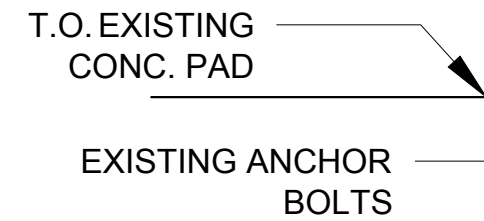
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E	NEW BASE PLATE PLAN VIEW
1	Scale: 3" = 1'-0"



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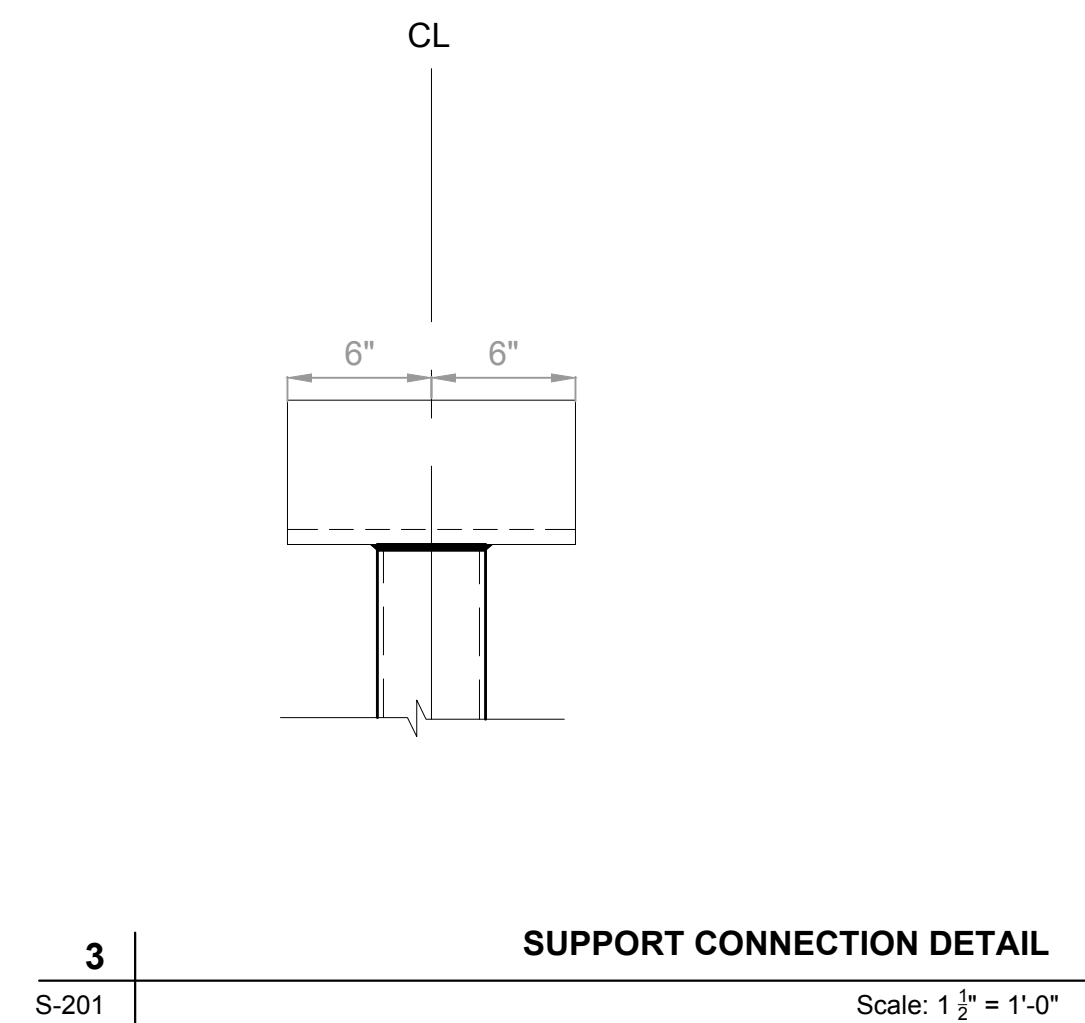
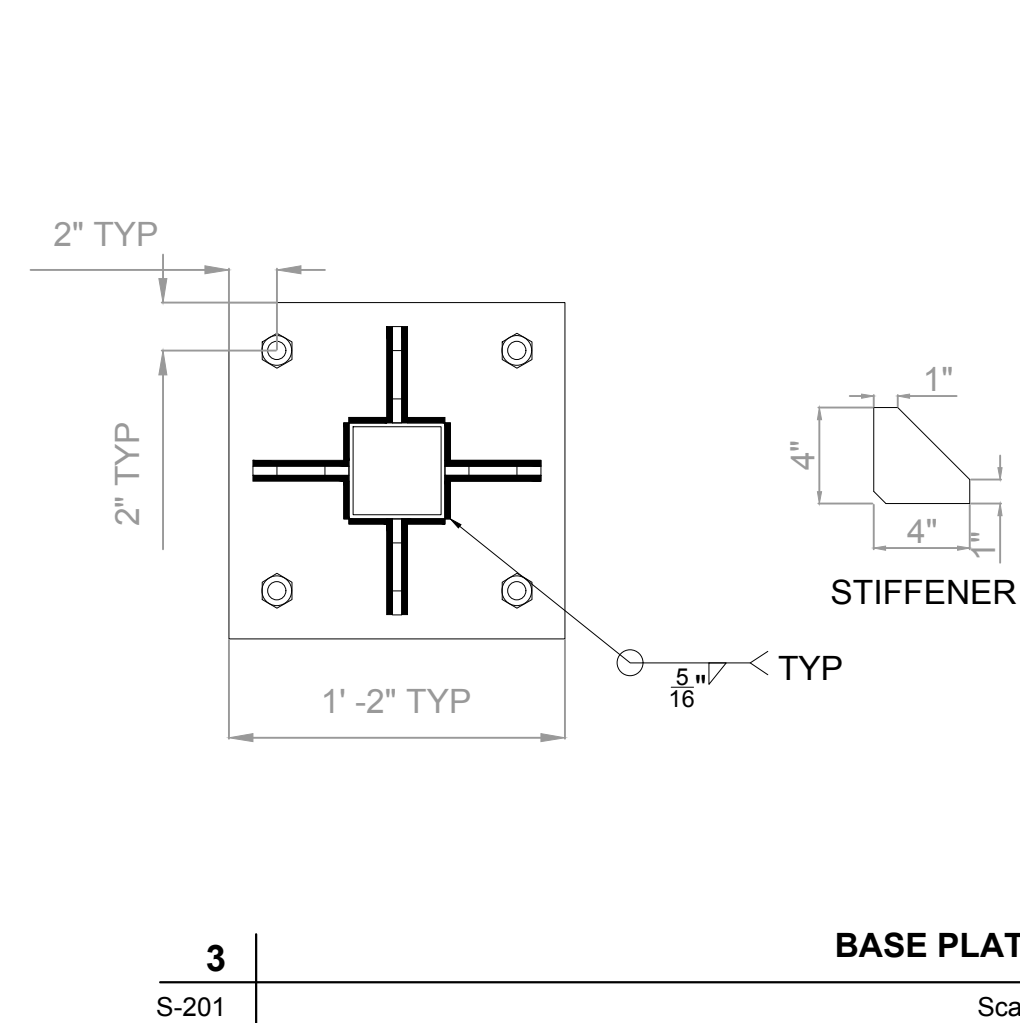
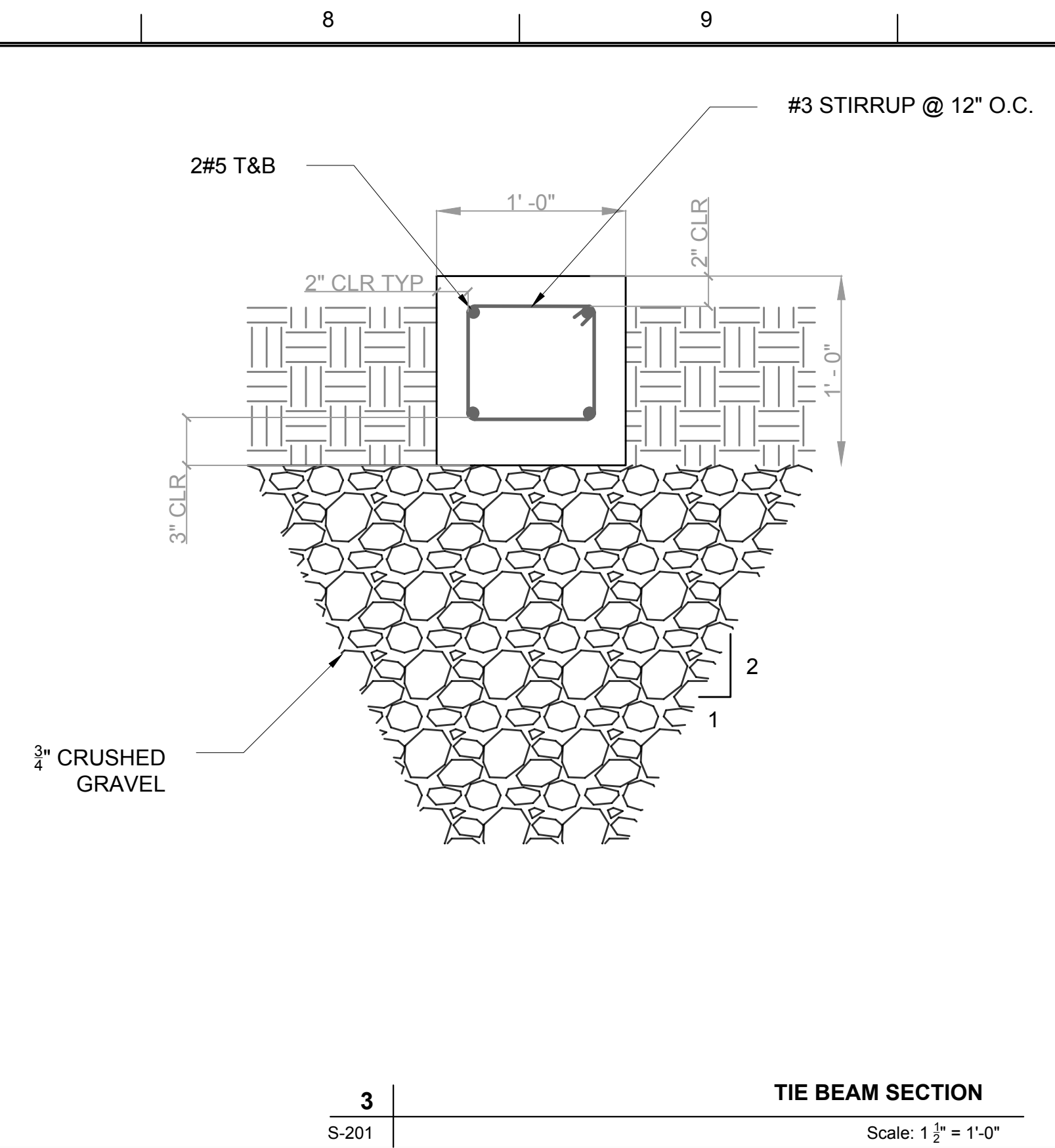
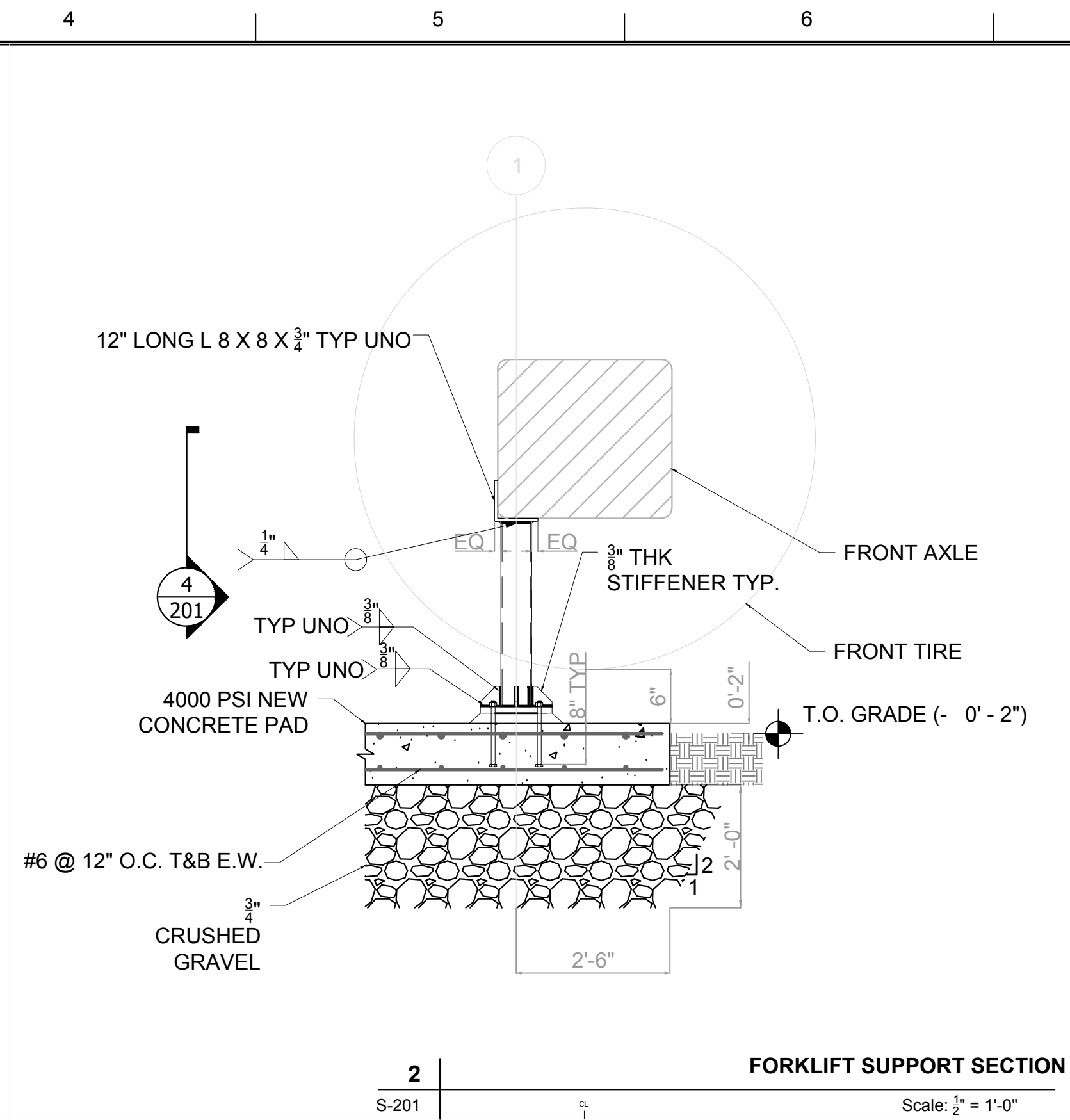
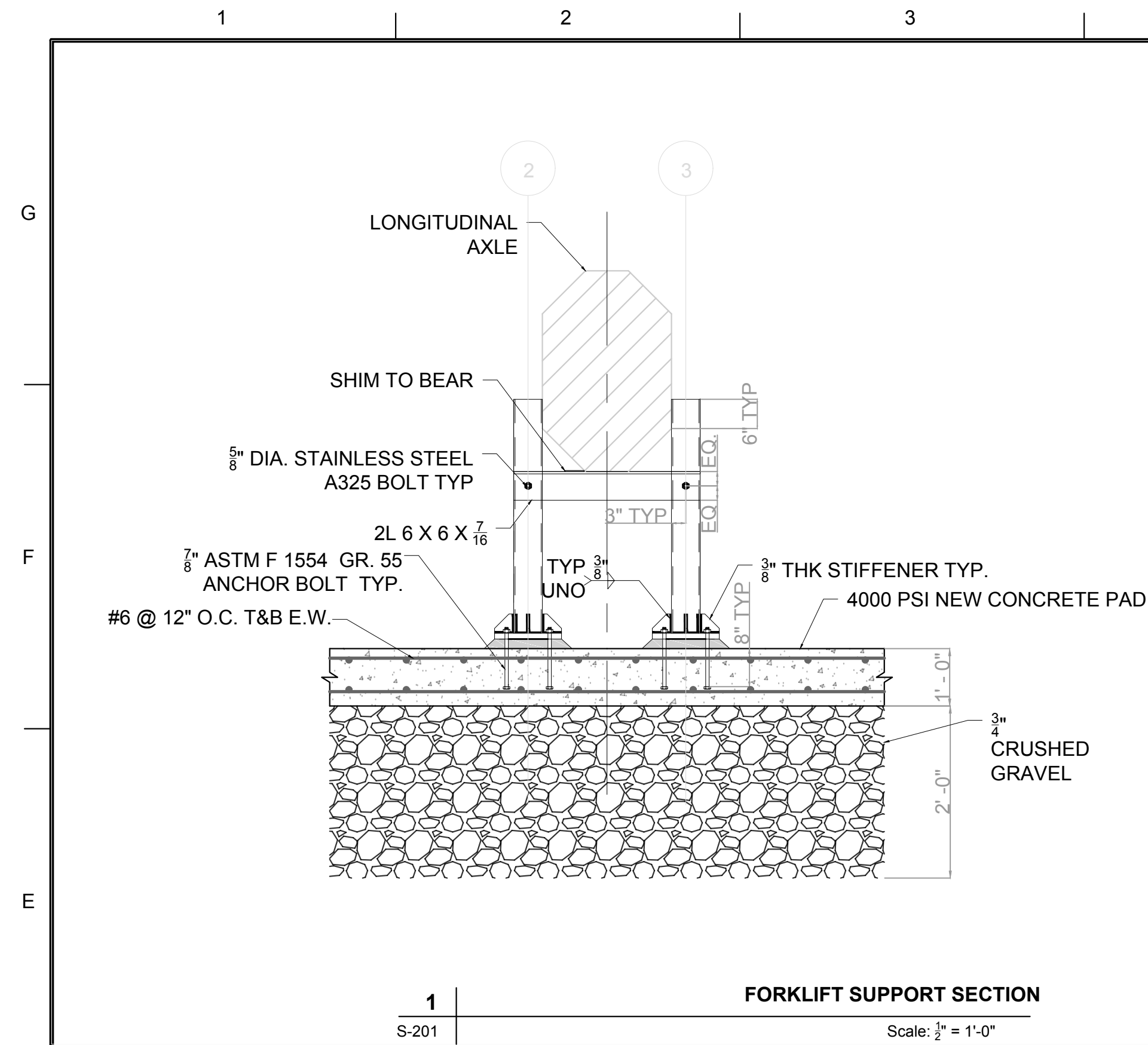
100 RED SCHOOLHOUSE RD
CHESTNUT RIDGE, NY

EXISTING MILL YARD EQUIPMENT

SLAG POT BASE PLATES REPLACEMENT

SHEET ID

S-100



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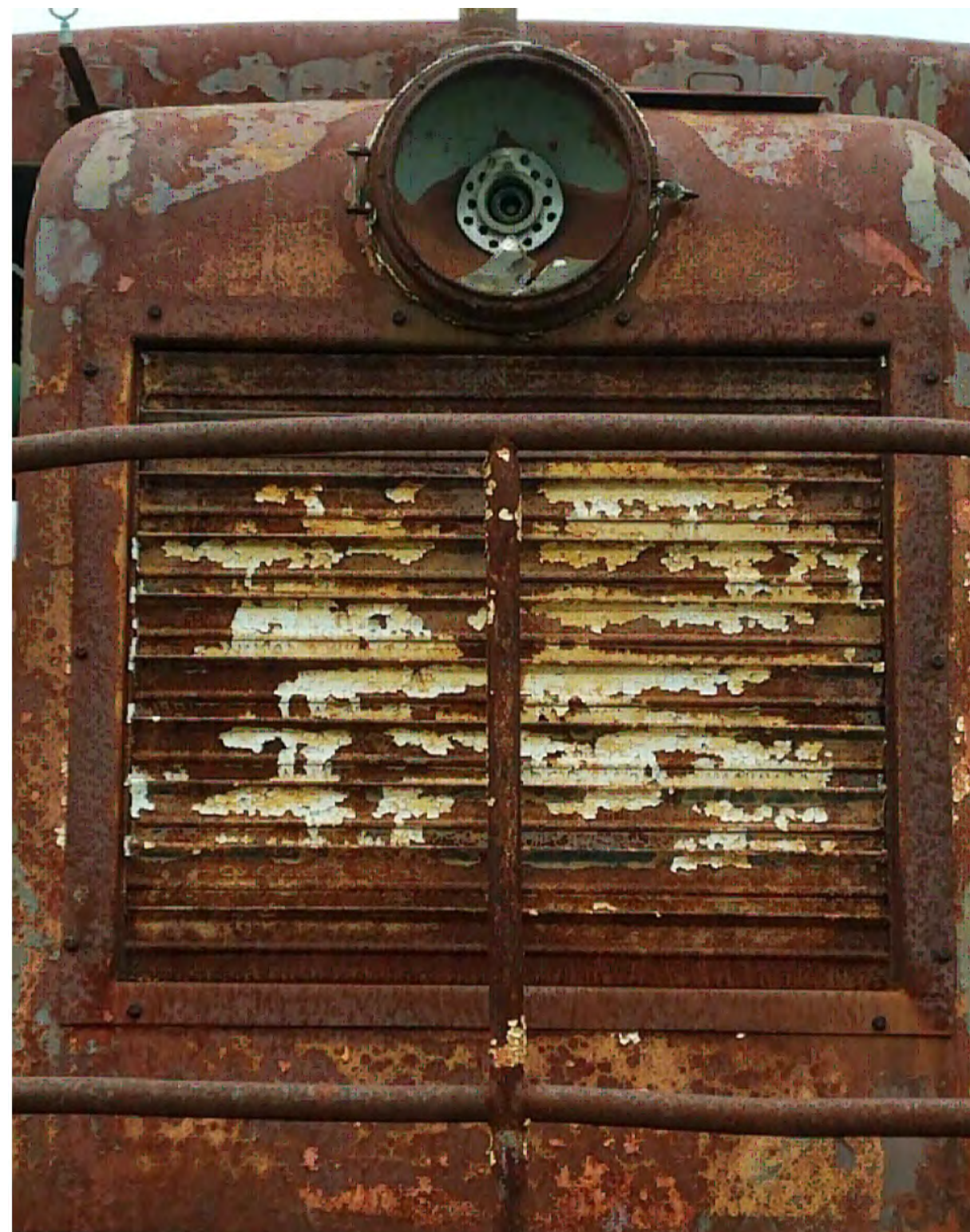
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S/S BY: SA: WJW/BY:	CHECKED BY: CS
DATE: AUGUST 2018	PROJECT NO.: XXXXXX-XX-X-XXXX
CONTRACT NO.:	W912DQ-D-15-3011
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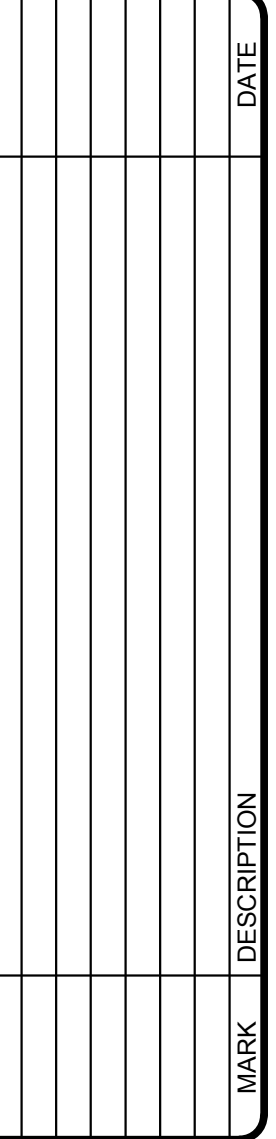
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1. TREATMENT MUST BE CONSISTENT WITH THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES (2017).
2. BEFORE ANY OF THIS WORK IS PERFORMED, CAREFUL DOCUMENTATION MUST BE COMPLETED OF THE SURVIVING PAINT SCHEME ALONG THE RUNNING BOARDS AND ON THE ENGINE COMPARTMENTS SO THAT IT CAN BE RECREATED AFTER CONSERVATION TREATMENTS. THE CONTRACTOR MUST SUBMIT DOCUMENTATION, INCLUDING PHOTO DOCUMENTATION, A DIAGRAM WITH MEASUREMENTS AND A LIST OF THE EXISTING PAINTING AND PROPOSED PAINTING SCHEMES AND COLORS.
3. THE CONTRACTOR MUST ASSUME THE EXISTING PAINT IS LEAD BASED AND REMOVAL OF THE PAINT MUST COMPLY WITH ALL FEDERAL AND STATE REGULATIONS.
4. CONFINED SPACE ENTRY PLANS, IF NECESSARY, MUST BE PREPARED AND SUBMITTED TO THE USACE PRIOR TO BEGINNING WORK.
5. THE WORK AREA MUST BE CLEARLY DEFINED WITH BARRIERS AND ENCLOSURES TO PROTECT THE PUBLIC FROM ANY OF THE COMPONENTS OF THE RESTORATION PROCESS. LINES AND FILTER VACUUM SYSTEMS MUST BE USED TO COLLECT ANY MEDIUM THAT BECOMES AIRBORNE DURING THE RESTORATION PROCESS (E.G., AIR ABRASION MEDIA, RUST, ACIDS AND PAINT) FOR REMOVAL FROM THE SITE.
6. AN INERT BARRIER MUST BE PLACED BETWEEN DIFFERENT METAL TYPES, FOR STEEL TO ALUMINUM, THE ALUMINUM MUST BE REMOVED AND A NYLON BUFFER MUST BE PLACED BETWEEN THE METALS BEFORE REPLACING THE ALUMINUM.
7. THE ENTIRE SURFACE INCLUDING THE UNDERCARRIAGE MUST BE CLEANED WITH AN AIR ABRASION SYSTEM EXCLUDING THE INTERNAL CONTROL PANELS.
8. ALL OF THE SURFACE RUST AND SURVIVING PAINT MUST BE REMOVED BY MECHANICAL CLEANING USING AIR ABRASION WITH SODIUM BICARBONATE. THE CONTRACTOR MUST FOLLOW THE TECHNIQUES SET FORTH IN THE GENERAL REQUIREMENTS TO DETERMINE THE CORRECT PSI.
9. THE SURFACES MUST BE PRIMED WITH PHOSPHORIC ACID AND TANNIC ACID. THE CONTRACTOR MUST FOLLOW THE TECHNIQUES SET FORTH IN THE GENERAL REQUIREMENTS TO DETERMINE THE CORRECT CONCENTRATIONS OF EACH ACID.
10. AT LEAST ONE COAT OF PHOSPHORIC ACID AND THREE COATS OF TANNIC ACID MUST BE APPLIED. THE CONTRACTOR MUST WAIT UNTIL THE TREATED AREAS ARE FULLY DRY AND MUST THOROUGHLY INSPECT THE AREAS BETWEEN APPLICATIONS. ADDITIONAL APPLICATIONS OF TANNIC ACID MAY BE NEEDED IF THE ARTIFACT IS NOT FULLY BLACK.
11. COMPLETE COATINGS OF PAINT MUST BE APPLIED TO THE ENTIRE ARTIFACT TO PREVENT MOISTURE AND CHLORIDES FROM PENETRATING THROUGH THE LAYERS. THE PAINT FOR THE LOCOMOTIVE MUST BE HISTORIC COLORS APPROVED BY USACE. AT LEAST TWO COMPLETE COATINGS OF A OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) APPROVED LOW LUSTER DIRECT TO METAL (D.T.M.) ALKYD PAINT SHALL BE APPLIED. THE PAINT SHALL BE AN INDUSTRIAL GRADE PAINT RATED FOR EXTERIOR USE ON METALS SUCH AS BENJAMIN MOORE® SUPER SPEC HP® D.T.M. ALKYD LOW LUSTRE P23 OR EQUIVALENT. THE CONTRACTOR MUST WAIT AT LEAST ONE DAY AND UNTIL THE PAINT IS FULLY DRY AND INSPECT THE ARTIFACT BEFORE APPLYING ADDITIONAL COATS. MORE THAN THREE COATS MAY BE NECESSARY IF ALL AREAS OF THE ARTIFACT ARE NOT FULLY COVERED.
13. THE INTERIOR OF THE CAB MUST BE WIPED CLEAN. THE GLASS ON THE CAB MUST BE REPLACED BY REMOVING THE OLD GLASKETS AND REPLACING THE GLASS WITH TINTED GLASS AND CUSTOM GASKETS SO THE INTERIOR IS NOT VISIBLE TO MUSEUM PATRONS. THE GLASS MUST BE SEALED IN PLACE TO ENSURE THAT WATER CANNOT REACH THE INTERIOR. ALL THE DOORS AND COMPARTMENTS MUST BE SEALED WITH CUSTOM GASKETS AND LOCKED.



KANSAS CITY DISTRICT	AFECOM	
	100 RED SCOUT HOUSE RD	
	CHESTNUT RIDGE, NY	
DRAWN BY:	CF	
SOLUTION NO:	XXXXXX-XX-X-XXXX	
CHECKED BY:	CF	
CONTRACT NO:	W912DQ-D-15-3011	
SUBMITTED BY:	CH	
SIZE:	ANSI D	

OPERABLE UNIT 4
EXISTING MILL YARD EQUIPMENT
LOCOMOTIVE RESTORATION DETAILS

K-101



INGOT CAR AND MOLD CAR TREATMENT:

1. TREATMENT MUST BE CONSISTENT WITH THE *SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES* (2017).
2. CONFINED SPACE ENTRY PLANS, IF NECESSARY, MUST BE PREPARED AND SUBMITTED TO THE USACE PRIOR TO BEGINNING WORK.
3. THE CONTRACTOR MUST ASSUME THE EXISTING PAINT IS LEAD BASED AND REMOVAL OF THE PAINT MUST COMPLY WITH ALL FEDERAL AND STATE REGULATIONS.
4. THE WORK AREA MUST BE CLEARLY DEFINED WITH BARRIERS AND ENCLOSURES TO PROTECT THE PUBLIC FROM ANY OF THE COMPONENTS OF THE RESTORATION PROCESS. LINERS AND FILTRATION SYSTEMS MUST BE USED TO COLLECT ANY MEDIUM THAT BECOMES AIRBORNE DURING THE RESTORATION PROCESS (E.G., AIR ABRASION MEDIA, ACIDS AND PAINT) FOR REMOVAL FROM THE SITE.
5. AN INERT BARRIER MUST BE PLACED BETWEEN DIFFERENT METAL TYPES. FOR STEEL TO ALUMINUM, THE ALUMINUM MUST BE REMOVED AND A NYLON BUFFER MUST BE PLACED BETWEEN THE METALS BEFORE REPLACING THE ALUMINUM.
6. THE MOLD BOXES MUST BE REMOVED AND TREATED SEPARATELY BEFORE BEING REPLACED. ALL OF THE SURFACE RUST AND SURVIVING PAINT MUST BE REMOVED INCLUDING THE UNDERCARRIAGES, UPPER PLATFORMS AND UNDER THE MOLD BOXES BY MECHANICAL CLEANING USING AIR ABRASION WITH SODIUM BICARBONATE. THE CONTRACTOR MUST FOLLOW THE TECHNIQUES SET FORTH IN THE GENERAL REQUIREMENTS TO DETERMINE THE CORRECT PSI.
7. THE SURFACES MUST BE PRIMED WITH PHOSPHORIC ACID AND TANNIC ACID. THE CONTRACTOR MUST FOLLOW THE TECHNIQUES SET FORTH IN THE GENERAL REQUIREMENTS TO DETERMINE THE CORRECT CONCENTRATION OF EACH ACID.
8. AT LEAST ONE COAT OF PHOSPHORIC ACID AND THREE COATS OF TANNIC ACID MUST BE APPLIED. THE CONTRACTOR MUST WAIT UNTIL THE TREATED AREAS ARE FULLY DRY AND MUST THOROUGHLY INSPECT THE AREAS BETWEEN APPLICATIONS. ADDITIONAL APPLICATIONS MUST BE APPLIED IF NEEDED IF THE ARTIFACT IS NOT FULLY BLACK.
9. COMPLETE COATINGS OF PAINT MUST BE APPLIED TO THE ENTIRE ARTIFACT TO PREVENT MOISTURE AND CHLORIDES FROM PENETRATING THROUGH THE LAYERS. THE PAINT MUST BE LATEX BASED. AT LEAST TWO COATINGS OF BLACK OR FLAT COLORED (OSHA APPROVED) DIRECT TO METAL (DTM) SAFETY PAINT MUST BE APPLIED TO THE ARTIFACT. THE PAINT MUST BE AN INDUSTRIAL GRADE PAINT RATED FOR EXTERIOR USE ON METALS SUCH AS BENJAMIN MOORE, ULTRA SPEC (LATEX) DTM HP25 NEUTRAL MATTE-BLACK PAINT OR EQUIVALENT. THE CONTRACTOR MUST WAIT AT LEAST ONE DAY AND UNTIL THE PAINT IS FULLY DRY AND INSPECT THE ARTIFACT BEFORE APPLYING ADDITIONAL COATS. MORE THAN TWO COATS MAY BE NECESSARY IF ALL AREAS OF THE ARTIFACTS ARE NOT FULLY COVERED.

[illegible]

KANSAS CITY DISTRICT	DRAWN BY: CF		SOLUTION NO.: XXXXXX-X-XXXX
	CHECKED BY: MK		CONTRACT NO.: W012DQ-D-15-3011
	SUBMITTED BY: CH		
	SIZE: ANSI/D		

OPERABLE UNIT 4
EXISTING MILL YARD EQUIPMENT

INGOT CAR AND MOLD CAR
RESTORATION DETAILS

SHEET ID

K-102

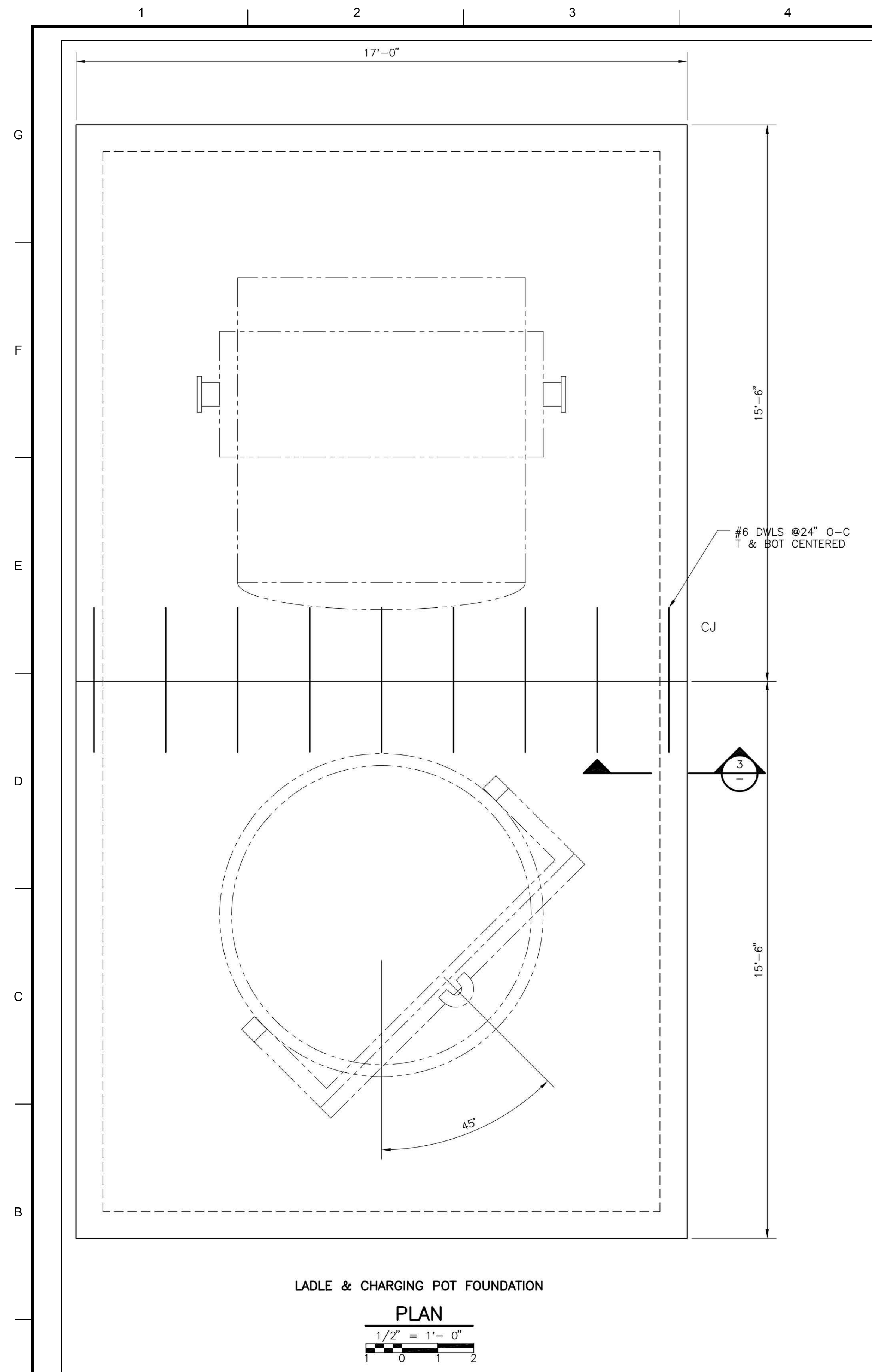


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- US Army Corps
of Engineers®**

U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT	ISSUE DATE:	
	UP	AUGUST 2018
	DESIGNED BY:	XXXXXXXXXX-XX-XXXX
	CHECKED BY:	XXXXXXXXXX-XX-XXXX
AECOM 100 RED SCHOOLHOUSE RD CHESTNUT RIDGE, NY	SUBMITTED BY:	
	MP	W91ZDQ-D-18-3011
	SIZE:	
	ANSI/D	


SHEET ID

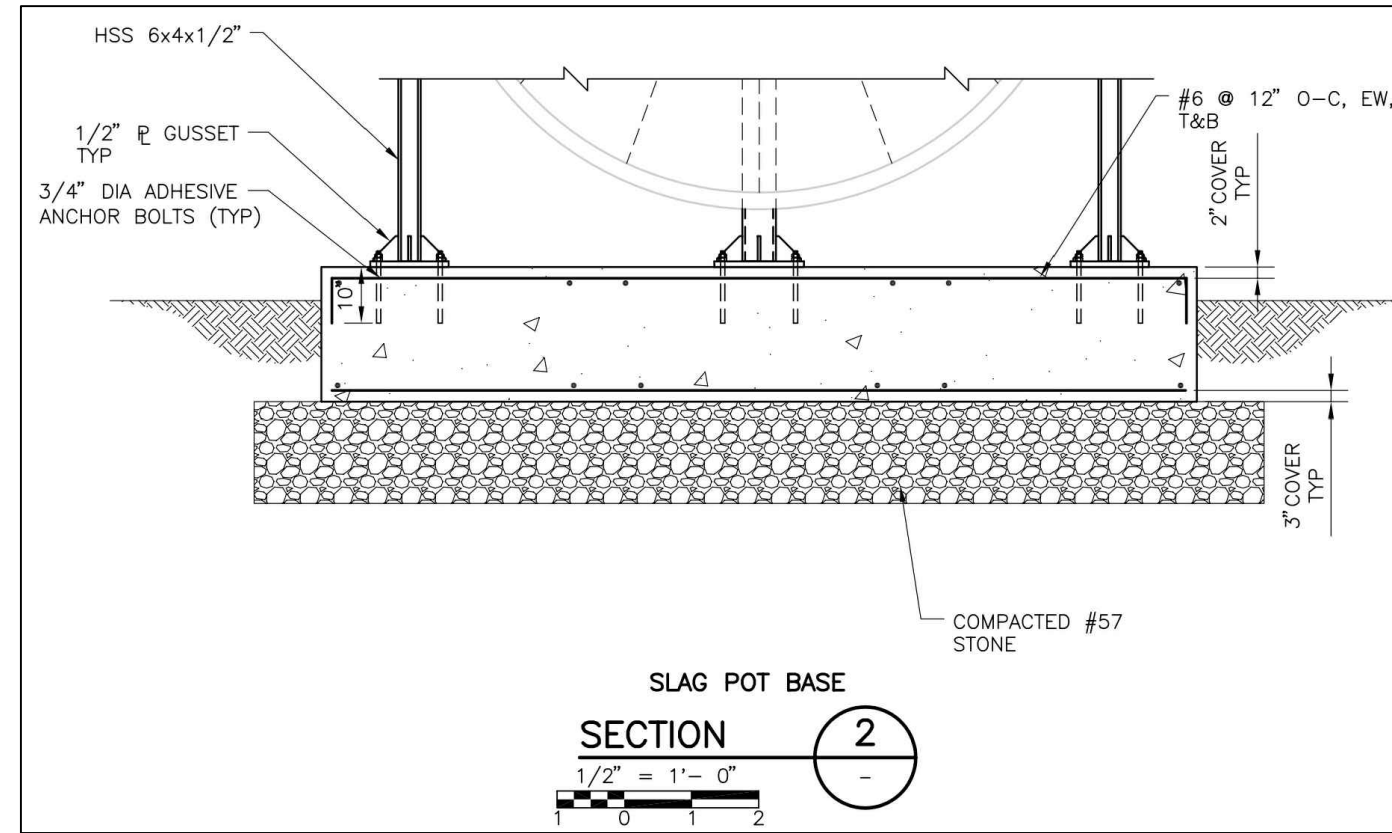
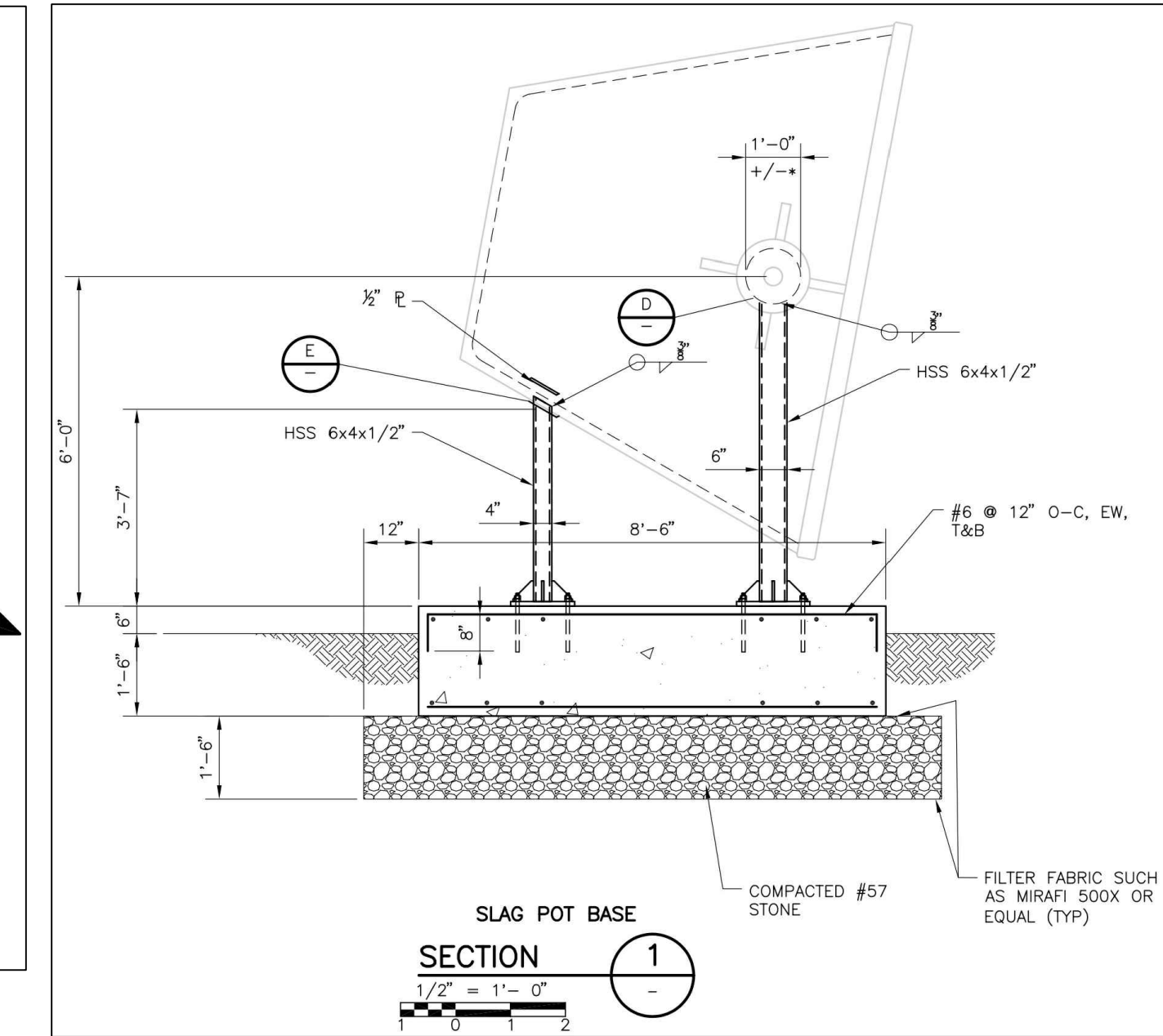
NOT FOR CONSTRUCTION



1. TREATMENT MUST BE CONSISTENT WITH THE *SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES* (2017).
2. THE SLAG AND BRICKS WITHIN THE CHARGING POT AND LADLE MUST BE REMOVED. THE METHOD OF SLAG REMOVAL MUST BE APPROVED BY THE USACE PRIOR TO STARTING THE WORK. THE APPROVAL PROCESS MUST INCLUDE USACE APPROVAL OF A TRIAL METHOD THAT MUST BE DEMONSTRATED AND THOROUGHLY DOCUMENTED ON A SMALL SECTION OF THE SLAG BEFORE FINAL USACE APPROVAL FOR OVERALL USE.
3. CONFINED SPACE ENTRY PLANS, IF NECESSARY, MUST BE PREPARED AND SUBMITTED TO THE USACE PRIOR TO BEGINNING WORK.
4. LIFTING PLANS MUST BE PREPARED AND SUBMITTED TO THE USACE PRIOR TO BEGINNING WORK.
5. THE WORK AREA MUST BE CLEARLY DEFINED WITH BARRIERS AND ENCLOSURES TO PROTECT THE PUBLIC FROM ANY OF THE COMPONENTS OF THE RESTORATION PROCESS. LINERS AND FILTRATION SYSTEMS MUST BE USED TO COLLECT ANY MEDIUM THAT BECOMES AIRBORNE DURING THE RESTORATION PROCESS (E.G., AIR ABRASION MEDIA, RUST, ACIDS AND PAINT) FOR REMOVAL FROM THE SITE.
6. THE ARTIFACTS MUST BE LIFTED USING AN APPROPRIATELY SIZED CRANE.
7. A TEFLOON PAD MUST BE PLACED BETWEEN THE CHARGING POT AND THE TREATED CONCRETE AND LADLE AND TREATED CONCRETE. EACH ARTIFACT MUST BE REPOSITIONED SUCH THAT IT IS SECURE AND STABLE. EACH ARTIFACT MUST BE HELD IN THE CENTER WITH A SLING OR APPROPRIATE SUPPORT SYSTEM TO KEEP IT FROM MOVING OFF THE CENTER. THE ORIENTATION MUST BE MAINTAINED AND THE ARTIFACT MUST BE PLACED BACK IN THE SAME ORIENTATION.
8. THE CONDITION OF THE CURRENT SUPPORT WEDGES FOR THE LADLE WILL BE ACCESSED AND REPLACED IN KIND IF NECESSARY. THE WEDGES WILL BE TREATED IN THE SAME MANNER AS THE LADLE WITH THE EXCEPTION THAT THE FINAL PAINT WILL BE GREY INSTEAD OF BLACK.
9. ALL OF THE SURFACE RUST AND SURVIVING PAINT MUST BE REMOVED BY MECHANICAL CLEANING USING AIR ABRASION WITH WALNUT SHELL MEDIA. THE CONTRACTOR MUST FOLLOW THE TECHNIQUES SET FORTH IN THE GENERAL REQUIREMENTS TO DETERMINE THE CORRECT PSI.
10. THE SURFACES MUST BE PRIMED WITH PHOSPHORIC ACID AND TANNIC ACID. THE CONTRACTOR MUST FOLLOW THE TECHNIQUES SET FORTH IN THE GENERAL REQUIREMENTS TO DETERMINE THE CORRECT CONCENTRATIONS OF EACH ACID.
11. AT LEAST ONE COAT OF PHOSPHORIC ACID AND THREE COATS OF TANNIC ACID MUST BE APPLIED. THE CONTRACTOR MUST WAIT UNTIL THE TREATED AREAS ARE FULLY DRY AND MUST THOROUGHLY INSPECT THE AREAS BETWEEN APPLICATIONS. ADDITIONAL APPLICATIONS OF TANNIC ACID MAY BE NEEDED IF THE ARTIFACT IS NOT FULLY BLACK.
12. COMPLETE COATINGS OF PAINT MUST BE APPLIED TO THE ENTIRE ARTIFACT TO PREVENT MOISTURE AND CHLORIDES FROM PENETRATING THROUGH THE LAYERS. THE PAINT MUST BE LATEX BASED. AT LEAST TWO COATINGS OF NEUTRAL BLACK MATTE (OSHA APPROVED) DIRECT TO METAL (DTM) SAFETY PAINT MUST BE APPLIED TO THE ARTIFACT. THE PAINT MUST BE AN INDUSTRIAL GRADE PAINT RATED FOR EXTERIOR USE ON METALS SUCH AS BENJAMIN MOORE® ULTRA SPEC (LATEX) DTM HP25 OR EQUIVALENT. THE CONTRACTOR MUST WAIT AT LEAST ONE DAY AND UNTIL THE PAINT IS FULLY DRY AND INSPECT THE ARTIFACT BEFORE APPLYING ADDITIONAL COATS. MORE THAN TWO COATS MAY BE NECESSARY IF ALL AREAS OF THE ARTIFACTS ARE NOT FULLY COVERED.

- CONCRETE PAD TREATMENT:**
1. ANY CRACKS IN THE CONCRETE MUST BE REPAIRED USING SIKADUR® 35, HI-MOD LV OR EQUIVALENT.
 2. THE CONCRETE PADS MUST BE PRESSURE WASHED AND ALLOWED TO FULLY DRY BEFORE BEING PAINTED.
 3. COMPLETE COATINGS OF PAINT MUST BE APPLIED TO THE CONCRETE TO PREVENT MOISTURE AND CHLORIDES FROM PENETRATING THROUGH THE LAYERS. THE PAINT MUST BE LATEX BASED. AT LEAST TWO THICK COATINGS OF GREY (OSHA APPROVED) DIRECT TO METAL (DTM) SAFETY PAINT MUST BE APPLIED. THE PAINT MUST BE AN INDUSTRIAL GRADE PAINT RATED FOR EXTERIOR USE ON METALS SUCH AS BENJAMIN MOORE® ULTRA SPEC (LATEX) DTM HP25 OR EQUIVALENT. THE CONTRACTOR MUST WAIT AT LEAST ONE DAY AND UNTIL THE PAINT IS FULLY DRY AND INSPECTED BEFORE APPLYING ADDITIONAL COATS. MORE THAN TWO COATS MAY BE NECESSARY IF ALL AREAS ARE NOT FULLY COVERED.

 US Army Corps of Engineers®		MARK		DESCRIPTION	DATE
CHARGING POT AND LADLE RESTORATION DETAILS ROEBLING STEEL SUPERFUND SITE OPERABLE UNIT 4 EXISTING MILL YARD EQUIPMENT		AECOM			
		100 RED SCHOOLHOUSE RD			
		CHESTNUT RIDGE, NY			
		DRAWN BY:			
		CHECKED BY:			
		SUBMITTED BY:			
		IN K:			
		SUBMITTED BY:			
		CH:			
		SIZE:			
ANSI D					
ASSIGNED BY: J.P. AUGUST 2018 SOLICITATION NO.: XXXXXX-XX-X-XXXX CF CHECKED BY: INK SUBMITTED BY: W912DQ-D-15-3011					



A large, rusted metal sculpture of a megaphone, mounted on a concrete base with four legs, set in a grassy field. The sculpture is made of dark, weathered metal and features a large circular opening at the front. It is positioned on a concrete pad, and the background shows a grassy area, a fence, and some trees.



SLAG POT TREATMENT PLAN:

1. TREATMENT MUST BE CONSISTENT WITH THE *SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES* (2017).
2. THE SLAG WITHIN THE SLAG POT MUST BE MECHANICALLY REMOVED. THE METHOD OF SLAG REMOVAL MUST BE APPROVED BY THE USACE PRIOR TO STARTING THE WORK. THE APPROVAL PROCESS MUST INCLUDE USACE APPROVAL OF A TRIAL METHOD THAT MUST BE DEMONSTRATED AND THOROUGHLY DOCUMENTED ON A SMALL SECTION OF THE SLAG BEFORE FINAL USACE APPROVAL FOR OVERALL USE. THE METHOD OF SLAG REMOVAL MUST TAKE INTO ACCOUNT THE CRACK AT THE BOTTOM OF THE SLAG POT. THE METHOD MUST INCLUDE A PROPOSAL TO ADDRESS SEALING THE CRACK LONG TERM (E.G., THROUGH WELDING OR BRAZING).
3. CONFINED SPACE ENTRY PLANS, IF NECESSARY, MUST BE PREPARED AND SUBMITTED TO THE USACE PRIOR TO BEGINNING WORK.
4. LIFTING PLANS MUST BE PREPARED AND SUBMITTED TO THE USACE PRIOR TO BEGINNING WORK.
5. THE WORK AREA MUST BE CLEARLY DEFINED WITH BARRIERS AND ENCLOSURES TO PROTECT THE PUBLIC FROM ANY OF THE COMPONENTS OF THE RESTORATION PROCESS. LINERS AND FILTRATION SYSTEMS MUST BE USED TO COLLECT ANY MEDIUM THAT BECOMES AIRBORNE DURING THE RESTORATION PROCESS (E.G., AIR ABRASION MEDIA, RUST ACIDS, OR PAINT) FOR REMOVAL FROM THE SITE.
6. THE BASEPLATES MUST BE REPLACED. THE ARTIFACT MUST BE LIFTED USING AN APPROPRIATELY SIZED CRANE. THE BASEPLATES, INCLUDING THE GROUT AND SHIMMING UNDER AND AROUND THE BASEPLATE, MUST BE REMOVED UNDER THE SUPERVISION OF A STRUCTURAL ENGINEER. THE CURRENT ANCHOR BOLTS MUST BE USED FOR THE REPLACEMENT SUPPORTS AND BASEPLATES. THE SUPPORTS MUST BE REUSED OR REPLACED IN KIND. THE BASEPLATES MUST BE REPLACED WITH AT LEAST AN 1 INCH THICK HOT DIP GALVANIZED ASTM A36 BASEPLATE AND PROVIDE A MINIMUM OF A TWO INCH EDGE DISTANCE FROM THE CENTER OF THE HOLE. TEFLON PADS MUST BE PLACED BETWEEN THE ARTIFACT AND THE SUPPORTS.
7. THE ARTIFACT MUST BE REPOSITIONED ON THE MODERN SUPPORTS SUCH THAT IT IS SECURE AND STABLE. THE ARTIFACT MUST BE HELD IN THE CENTER WITH A SLING OR APPROPRIATE SUPPORT SYSTEM TO KEEP IT FROM MOVING OFF THE CENTER. THE ORIENTATION MUST BE MAINTAINED AND THE ARTIFACT MUST BE PLACED BACK IN THE SAME ORIENTATION. NO ADJUSTMENTS MUST BE MADE TO THE POSITIONING OF THE SUPPORTS.
8. THE ENTIRE SURFACE MUST BE CLEANED WITH AN AIR ABRASION SYSTEM.
9. ALL OF THE SURFACE RUST AND SURVIVING PAINT MUST BE REMOVED BY MECHANICAL CLEANING USING AIR ABRASION WITH WALNUT SHELL MEDIA. THE CONTRACTOR MUST FOLLOW THE TECHNIQUES SET FORTH IN THE GENERAL REQUIREMENTS TO DETERMINE THE CORRECT PSI.
10. THE SURFACES MUST BE PRIMED WITH PHOSPHORIC ACID AND TANNIC ACID. THE CONTRACTOR MUST FOLLOW THE TECHNIQUES SET FORTH IN THE GENERAL REQUIREMENTS TO DETERMINE THE CORRECT CONCENTRATIONS OF EACH ACID.
11. AT LEAST ONE COAT OF PHOSPHORIC ACID AND THREE COATS OF TANNIC ACID MUST BE APPLIED. THE CONTRACTOR MUST UNTIL THE TREATED AREAS ARE FULLY DRY AND MUST THOROUGHLY INSPECT THE AREAS BETWEEN APPLICATIONS. ADDITIONAL APPLICATIONS OF TANNIC ACID MAY BE NEEDED IF THE ARTIFACT IS NOT FULLY BLACK.
12. COMPLETE COATINGS OF PAINT MUST BE APPLIED TO THE ENTIRE ARTIFACT TO PREVENT MOISTURE AND CHLORIDES FROM PENETRATING THROUGH THE LAYERS. THE PAINT MUST BE LATEX BASED. AT LEAST TWO COATINGS OF NEUTRAL BLACK MATTE (OSHA APPROVED) DIRECT TO METAL (DTM) SAFETY PAINT MUST BE APPLIED TO THE ARTIFACT. THE PAINT MUST BE AN INDUSTRIAL GRADE PAINT RATED FOR EXTERIOR USE ON METALS SUCH AS BENJAMIN MOORE® ULTRA SPEC (LATEX) DTM #P25 OR EQUIVALENT. THE CONTRACTOR MUST WAIT AT LEAST ONE DAY AND UNTIL THE PAINT IS FULLY DRY AND INSPECT THE ARTIFACT BEFORE APPLYING ADDITIONAL COATS. MORE THAN TWO COATS MAY BE NECESSARY IF ALL AREAS OF THE ARTIFACTS ARE NOT FULLY COVERED.

CONCRETE PAD TREATMENT:

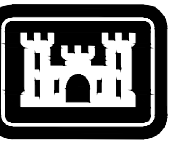
1. ANY CRACKS IN THE CONCRETE MUST BE REPAIRED USING SIKADUR® 35, HI-MOD LV AND SIKACRYL® READY-MIX CONCRETE PATCH OR EQUIVALENTS.
2. THE CUT BOLTS IN THE CONCRETE PAD AT THE REAR OF THE SLAG POT MUST BE COATED WITH SIKAGARD® 62 EPOXY COATING OR EQUIVALENT.
3. THE CONCRETE PADS MUST BE PRESSURE WASHED AND ALLOWED TO FULLY DRY BEFORE BEING PAINTED.
4. COMPLETE COATINGS OF PAINT MUST BE APPLIED TO THE CONCRETE TO PREVENT MOISTURE AND CHLORIDES FROM PENETRATING THROUGH THE LAYERS. THE PAINT MUST BE LATEX BASED. AT LEAST TWO THICK COATINGS OF GREY (OSHA APPROVED) DIRECT TO METAL (DTM) SAFETY PAINT MUST BE APPLIED. THE PAINT MUST BE AN INDUSTRIAL GRADE PAINT RATED FOR EXTERIOR USE ON METALS SUCH AS BENJAMIN MOORE® ULTRA SPEC (LATEX) DTM HP25 OR EQUIVALENT. THE CONTRACTOR MUST WAIT UNTIL THE PAINT IS FULLY DRY AND INSPECTED BEFORE APPLYING ADDITIONAL COATS. MORE THAN TWO COATS MAY BE NECESSARY IF ALL AREAS ARE NOT FULLY COVERED.

U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT	DESIGNED BY:	JP	ISSUE DATE:	AUGUST 2018
	DRAWN BY:	JP	SOLICITATION NO.:	W9120G-D-15-3011
	CHECKED BY:	MM	CONTRACT NO.:	W9120G-D-15-3011
	APPROVED BY:	MM	DATE:	10/1/2018
AECOM 100 RED SCHOOLHOUSE RD CHESTNUT RIDGE, NY	SUBMITTED BY:	CH		
	SIZE:			
	ANSI/D			

ROEBLING STEEL SUPERFUND SITE
OPERABLE UNIT 4
EXISTING MILL YARD EQUIPMENT

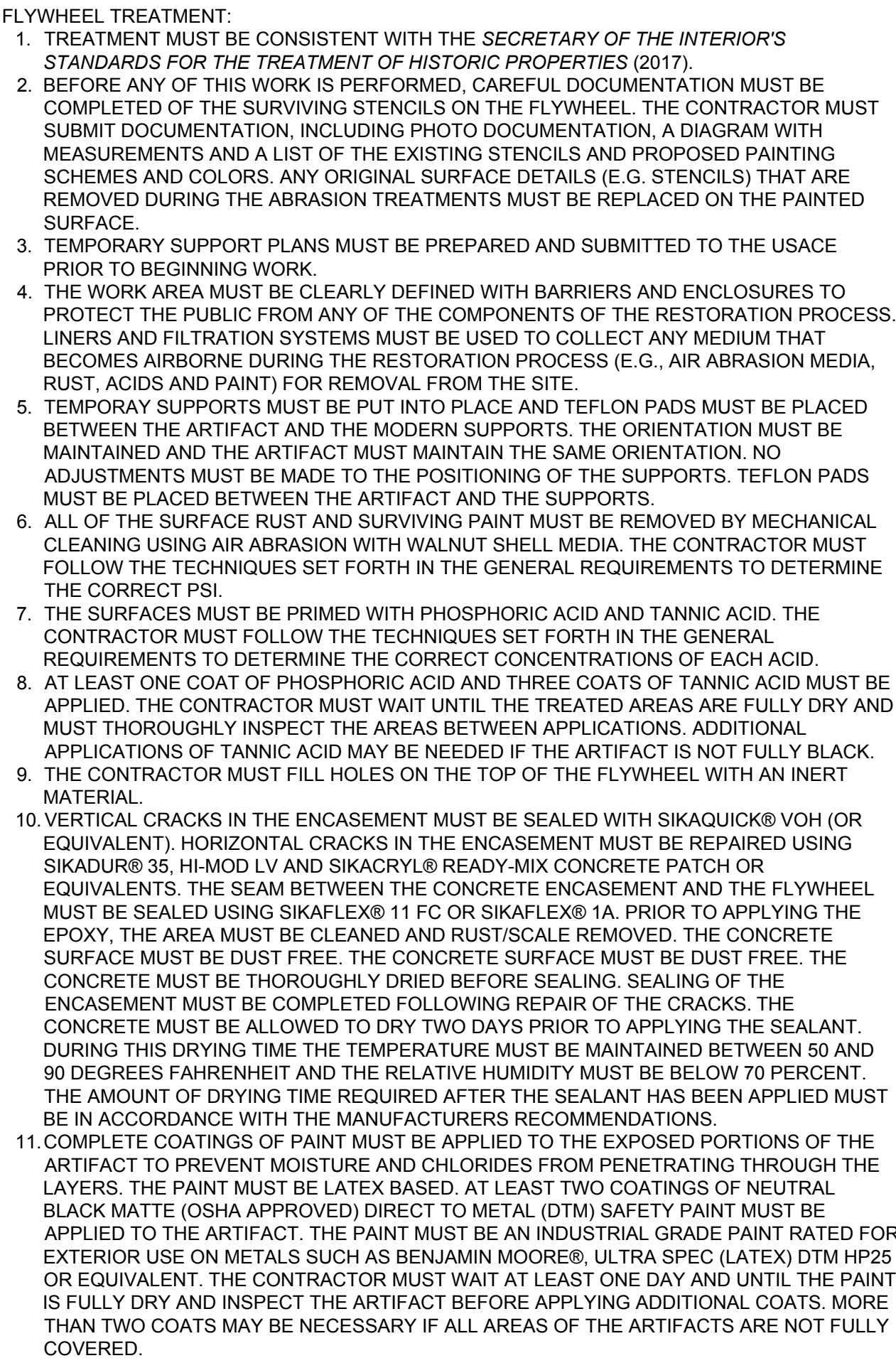
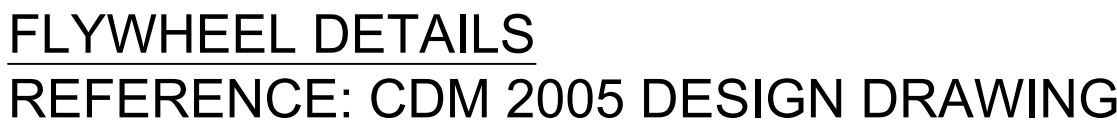
SLAG POT RESTORATION DETAILS

SHEET ID
X-105



**US Army Corps
of Engineers®**

[illegible]

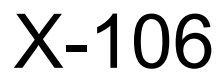


SUPPORTS TREATMENT


1. THE ENTIRE SUPPORTS MUST BE CLEANED MECHANICALLY WITH AN AIR ABRASION SYSTEM.
2. A HIGHLY FLOWABLE EPOXY GROUT SUCH AS SIKADUR® 35, HI-MOD LV OR EQUIVALENT MUST BE INJECTED UNDERNEATH THE BASEPLATES.
3. THE SUPPORTS MUST BE TREATED WITH RUST INHIBITORS.
4. COMPLETE COATINGS OF PAINT MUST BE APPLIED TO THE SUPPORTS TO PREVENT MOISTURE AND CHLORIDES FROM PENETRATING THROUGH THE LAYERS. THE PAINT MUST BE LATEX BASED, AT LEAST TWO THICK COATINGS OF GREY (OSHA APPROVED) DIRECT TO METAL (DTM) SAFETY PAINT MUST BE APPLIED. THE PAINT MUST BE AN INDUSTRIAL GRADE PAINT RATED FOR EXTERIOR USE ON METALS SUCH AS BENJAMIN MOORE® ULTRA SPEC (LATEX) DTM HP25 OR EQUIVALENT. THE CONTRACTOR MUST WAIT AT LEAST ONE DAY AND UNTIL THE PAINT IS FULLY DRY AND INSPECTED BEFORE APPLYING ADDITIONAL COATS. MORE THAN TWO COATS MAY BE NECESSARY IF ALL AREAS OF THE SUPPORTS ARE NOT FULLY COVERED.

CONCRETE PAD TREATMENT:

1. ANY CRACKS IN THE CONCRETE MUST BE REPAIRED USING SIKADUR® 35, HI-MOD LV OR EQUIVALENT.
2. THE CONCRETE PADS MUST BE CLEANED AND ALLOWED TO FULLY DRY BEFORE BEING PAINTED. PLANS OUTLINE THE METHOD THAT WILL BE USED FOR THOROUGHLY DRYING THE CONCRETE MUST BE PREPARED AND SUBMITTED TO THE USACE PRIOR TO BEGINNING WORK.
3. COMPLETE COATINGS OF PAINT MUST BE APPLIED TO THE CONCRETE TO PREVENT MOISTURE AND CHLORIDES FROM PENETRATING THROUGH THE LAYERS. THE PAINT MUST BE LATEX BASED. AT LEAST TWO THICK COATINGS OF GREY (OSHA APPROVED) DIRECT TO METAL (DTM) SAFETY PAINT MUST BE APPLIED. THE PAINT MUST BE AN INDUSTRIAL GRADE PAINT RATED FOR EXTERIOR USE ON METALS SUCH AS BENJAMIN MOORE® ULTRA SPEC (LATEX) DTM HP25 OR EQUIVALENT. THE CONTRACTOR MUST WAIT AT LEAST ONE DAY AND UNTIL THE PAINT IS FULLY DRY AND INSPECTED BEFORE APPLYING ADDITIONAL COATS. MORE THAN TWO COATS MAY BE NECESSARY IF ALL AREAS ARE NOT FULLY COVERED.





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U.S. ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT	ISSUE DATE: JULY 2018	
	DRAWN BY: JL	
AECOM 100 RED SCHOOLHOUSE RD CHESTNUT RIDGE, NY	CHECKED BY: MK	
	SUBMITTED BY: W91ZDO-D-15-3011	
ANSI D		SIZE:

ROEBLING STEEL SUPERFUND SITE
OPERABLE UNIT 4
EXISTING MILL YARD EQUIPMENT

FORKLIFT (LA TOURNEAU) RESTORATION DETAILS

SHEET ID
X-107